New Jersey Department of Health and Senior Services Communicable Disease Service Influenza Activity Summary Week Ending December 19, 2009(MMWR Week 50)

Influenza Activity Level: WIDESPREAD

NOTE: Two of three parameters are at or above state baseline. Seven counties have 2 of 3 parameters above state baseline and sixteen counties have culture/PCR positive samples in the last 3 weeks. Six counties had both positive culture/PCR and 2 of 3 parameters above baseline.

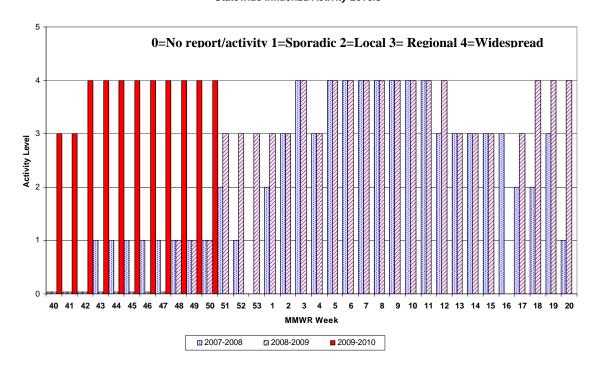
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the state within previous 3 weeks **OR** at least one laboratory confirmed outbreak in an institution anywhere in the state Local – At least 2 of 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties Widespread – At least 2 of 3 parameters above state baseline in > 10 counties **OR** institutional outbreaks in > 10 counties **AND** lab confirmed influenza cases in previous 3 weeks.

Parameter = School, emergency department, or long term care weekly surveillance data

Off season baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2006, 2007, 2008, 2009) period during months when influenza is less likely to be circulating (May-August).

New Jersey Department of Health and Senior Services Statewide Influenza Activity Levels



Regional Data

Region	Counties in Region	Activity Level
NW Region	Morris, Passaic, Sussex, Warren	REGIONAL
NE Region	Bergen, Essex, Hudson	REGIONAL
CW Region	Hunterdon, Mercer, Somerset	REGIONAL
CE Region	Middlesex, Monmouth, Ocean, Union	REGIONAL
South Region	Atlantic, Burlington, Camden, Cape May, Salem,	REGIONAL
- I	Cumberland, Gloucester	

No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

<u>Local</u> – At least 2 of 3 parameters above state baseline in a single county of a public health region **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county of a public health region

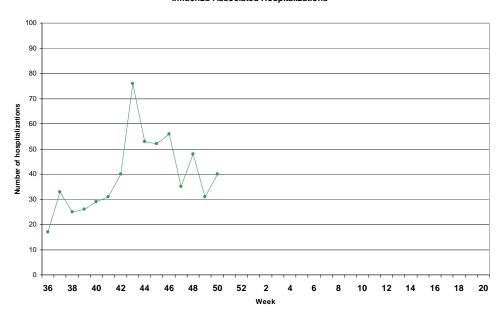
Regional – At least 2 of 3 parameters above state baseline in at least half of the counties of public health region AND laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in at least half of counties of public health region counties Widespread – Not used for public health region data

Influenza Hospitalizations/Deaths

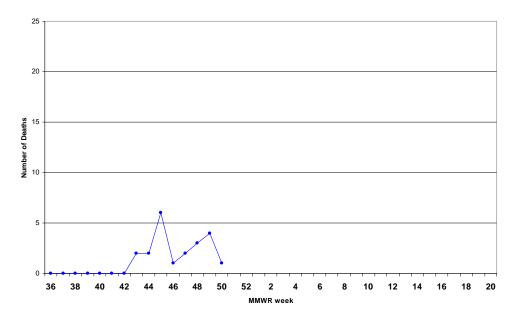
Influenza-associated hospitalizations are reported weekly from a subset of hospital facilities. Facilities report patients hospitalized with either laboratory-confirmed (rapid, PCR, culture) influenza or patients admitted with influenza-like illness. Data from influenza-associated deaths are extracted from CDRSS. Only deaths associated with laboratory-confirmed influenza are included in these statistics.

NJ Influenza-Associated Hosp	oitalizations and Deat	hs by Current
MMWR week and Cumula	ative Total (Week 36	to present)
	Hospitalizations	Deaths
Week 50	40	1
Cumulative	592	21

Influenza-Associated Hospitalizations

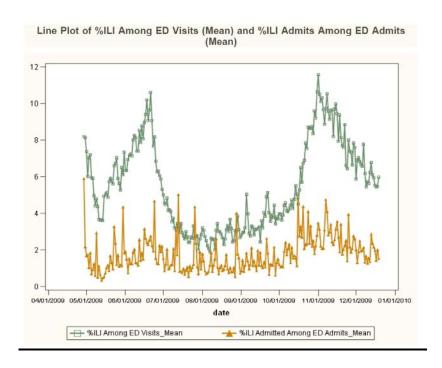


Influenza-Associated Deaths



<u>Syndromic Surveillance – Enhanced Emergency Department (ED) Surveillance for Influenza-like Illness (ILI)</u>

NOTE: The number of ED visits, hospital admissions, ED visits due to ILI, and hospital admissions due to ILI are reported each day by acute care facilities statewide. These data are captured via daily surveys sent using the Hippocrates system.



Summary of Emergency Department (ED) Visits and Admits Surveillance

Daily surveillance for ED visits and admissions from these hospital EDs resulted in 12 ED visit blips (Atlantic, Bergen, Camden, Essex, Hudson, Mercer, Newark, Ocean, and Somerset) and four admission blips (Camden, Middlesex, Newark, and Salem-Cumberland) from 12/13/09 to 12/19/09. Six volume blip responses were received and none was ILI-related. One admission blip response was received and it was ILI-related.

Summary of Enhanced Emergency Department (ED) Surveillance for Influenza-like Illness (ILI) During 12/13/09-12/19/09, 80 acute care facilities in NJ reported an aggregate total of 3,317 ED visits due to ILI (5.9% of total ED visits) and an aggregate total of 247 admissions due to ILI (7.5% of total ILI ED visits). These reports resulted in five ED ILI visit blips (Atlantic, Camden, Monmouth, Morris, and Ocean). There was no significant difference in ILI activity for the week ending 12/19/09 when compared to the previous week ending 12/12/09 (p = 0.19). The mean percentage of ED visits for ILI during the week ending 12/19/09 was 6.2%, compared to 5.9% for the previous week. The mean percentage of ED visits due to ILI ranged from 5.5% to 6.8% during 12/13/09 - 12/19/09. The mean percentage of ED visits due to ILI (averaged over the previous four influenza seasons) for this same week (MMWR Week 50) was approximately 4%.

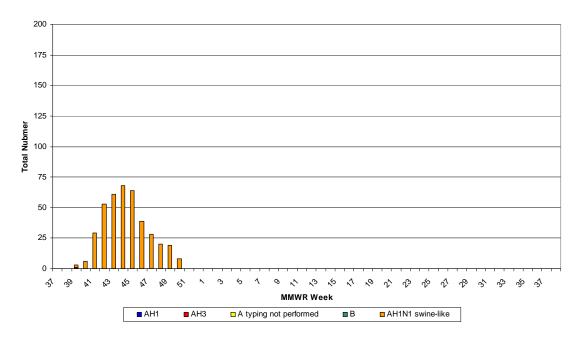
Laboratory Surveillance

As of week 50, 395 samples were found to be positive by viral culture or PCR for influenza AH1, AH3, novel AH1N1 or influenza B. Please see graph on next page for weekly distribution. Numbers of specimens tested and total number positive by rapid influenza testing are displayed by county at the end of this report.

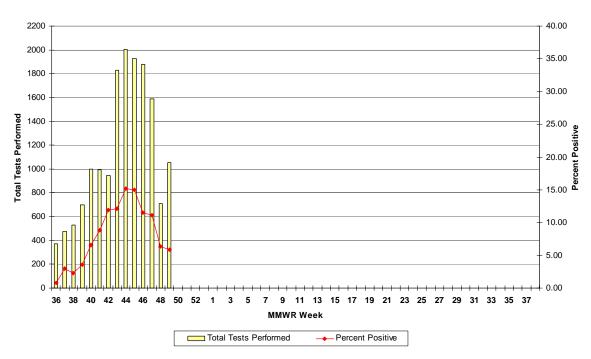
	MMWR Week 40 to present week						MMWR Week 48, 49, 50				
	A H1	A H3	A (subtyping not done)	В	2009 Influenza A H1N1	A H1	A H3	A (subtyping not done)	В	2009 Influenza A H1N1	
Atlantic County	0	0	0	0	25	0	0	0	0	2	
Bergen County	0	0	0	0	31	0	0	0	0	5	
Burlington County	0	0	0	0	7	0	0	0	0	0	
Camden County	0	0	0	0	44	0	0	0	0	1	
Cape May County	0	0	0	0	19	0	0	0	0	1	
Cumberland County	0	0	0	0	16	0	0	0	0	2	
Essex County	0	0	0	0	6	0	0	0	0	3	
Gloucester County	0	0	0	0	3	0	0	0	0	0	
Hudson County	0	0	0	0	6	0	0	0	0	2	
Hunterdon County	0	0	0	0	27	0	0	0	0	2	
Mercer County	0	0	0	0	30	0	0	0	0	3	
Middlesex County	0	0	0	0	42	0	0	0	0	7	
Monmouth County	0	0	0	0	19	0	0	0	0	2	
Morris County	0	0	0	0	39	0	0	0	0	7	
Ocean County	0	0	0	0	4	0	0	0	0	1	
Passaic County	0	0	0	0	13	0	0	0	0	1	
Salem County	0	0	0	0	0	0	0	0	0	0	
Somerset County	0	0	0	0	9	0	0	0	0	1	
Sussex County	0	0	0	0	2	0	0	0	0	0	
Union County	0	0	0	0	43	0	0	0	0	7	
Warren County	0	0	0	0	10	0	0	0	0	0	
Unknown	0	0	0	0	0	0	0	0	0	0	
State Total	0	0	0	0	395	0	0	0	0	47	

^{*}Rapid influenza test data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture/PCR results are obtained from the LIMS system at PHEL or hospital viral culture laboratories via NREVSS. County of residence as provided by the laboratory is used to assign culture results to a county. If county of residence is not available, the county of the facility reporting is utilized.

Influenza Laboratory Report Positive Specimens by PCR and Culture by Week 2009-2010 Influenza Season



Influenza Rapid Antigen Tests Total and Percent Positive 2008-2009 Influenza Season

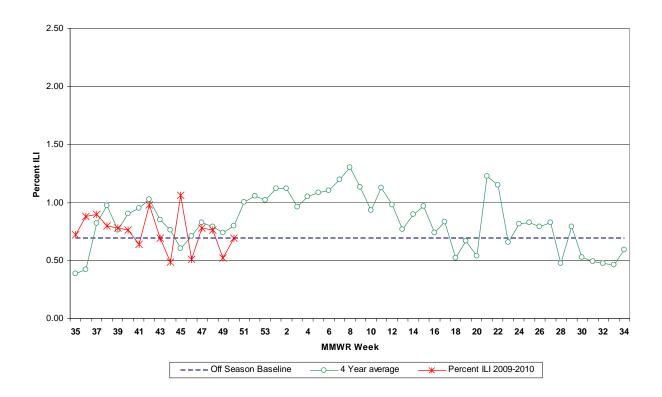


Influenza-like Illness (ILI) Surveillance*

Long-term Care Facilities

During week 50, 0.69% ILI was reported statewide from long term care facilities. This is an increase compared to the previous week (0.52%). The percent ILI for each county ranged from 0.00% to 1.91%. The percent ILI for this same week last year was 0.55% in long-term care facilities. The percent ILI for the northwest (1.45%) and northeast (0.72%) public health regions were above the state baseline (0.69%). No new reports of respiratory outbreaks in an institutional setting were received in week 50.

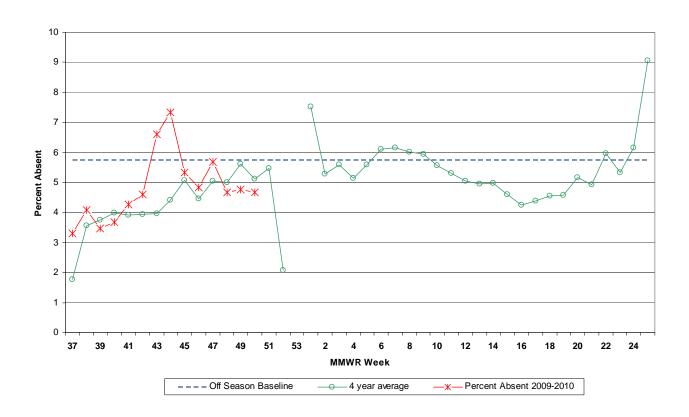
Influenza-like Activity - Long Term Care Facilities



School Absenteeism

During week 50, schools reported 4.68% absenteeism. This is a decrease compared to the previous week (4.77%). The percent absenteeism for each county ranged from 2.84 to 6.46%. The percent absent for this same week last year was 5.13%. The percent absenteeism for no public health regions were found to be at or above the state baseline (5.73%).

School Absenteeism

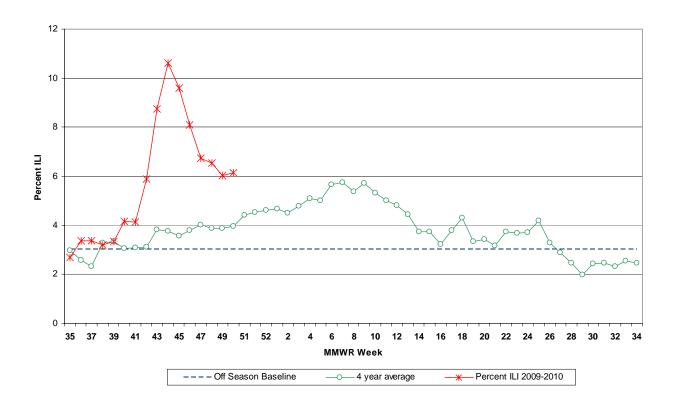


Emergency Departments

NOTE: Data presented below is from daily ED data extracted from Hippocrates survey responses for Tuesday of each week. Because this data only represents one day of data, it is likely less accurate for detecting true trends than the syndromic data presented above.

During week 50, 6.14% of ILI was reported statewide from emergency departments. This is an increase compared to the previous week (6.04%). The percent ILI for each county ranged from 0.00% to 13.45%. The percent ILI for this same week last year was 2.88% in emergency departments. The percent ILI for the northwest (8.92%), northeast (6.00%), central west (4.75%), central east (7.92%) and south (3.05%) public health regions were found to be above the state baseline (3.04%).

Influenza-like Activity - Emergency Departments

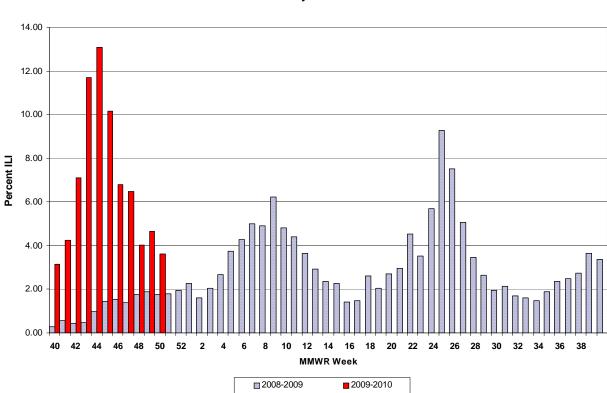


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Sentinel Provider Surveillance

During week 50, 3.61% of sentinel provider patient visits were due to ILI. These data reflect reports from eighteen (26%) of the 70 enrolled sentinel providers.

During week 49, 4.67% of sentinel provider patient visits were due to ILI. These data reflect reports from twenty nine (41%) of the 70 enrolled sentinel providers.



Influenza-like Activity - Sentinel Providers

Pediatric Influenza Surveillance

To date, NJDHSS has received 38 reports of pediatric influenza meeting the case definition.

122 City Mortality Report

During week 49, 7.89% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Jersey City, Newark, Paterson, Trenton) were due to pneumonia or influenza. This is an increase compared to the previous week (5.88%). The percentage of death due to pneumonia or influenza for this same week last year was 3.42%.

RSV Reports

During week 49, 30.52% of all RSV samples tested were positive. This is a decrease from the previous week 35.94%. The percent of samples positive for RSV for this same week last year was 31.58%.

40.00 40.00 35.00 35.00 30.00 30.00 25.00 25.00 Percent positive 20.00 20.00 15.00 15.00 10.00 10.00 5.00 0.00 49 51 53 8 MMWR Week ■ % positive 2009-2010 % positive 2008-2009 4 year average

Respiratory Syncytial Virus (RSV)

Additional Information

For additional information regarding influenza surveillance please visit the following websites.

http://nj.gov/health/flu/surveillance.shtml http://www.cdc.gov/flu/

^{*} Off Season baseline is calculated by taking the average of statewide percentages of ILI for a 3 year (2006, 2007, 2008, 2009) period during months when influenza is less likely to be circulating (May-August).

^{**}Four year average is an average of the 2005-2006, 2006-2007, 2007-2008, 2008-2009 influenza seasons.

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 12/15/2009 to



NEW JERSEY DEPARTMENT HEALTH SENIOR SERVICES

									SENIOR SERVICES	
		Long Term Card	2	Schools			Hospital Emergency Department			
County	# Enrolled	# Reports Rec'd	% IL1	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI	
December, 15, 2009 12:00 AM MI	MRW WEEK 50									
ATLANTIC	4	2	0.71	19	13	6.46	4	4	1.89	
BERGEN	3	1	0.00	25	9	4.79	6	5	6.92	
BURLINGTON	6	3	0.00	115	71	4.54	3	3	1.94	
CAMDEN	7	0	0.00	17	0	0.00	7	5	3.09	
CAPE MAY	6	3	0.00	11	11	5.73	1	1	11.83	
CUMBERLAND	6	2	0.66	19	6	6.14	3	3	3.78	
ESSEX	18	4	0.16	45	15	4.14	11	8	4.46	
GLOUCESTER	5	4	0.28	4	4	4.25	2	1	2.31	
HUDSON	13	5	1.43	120	85	5.67	6	5	7.36	
HUNTERDON	4	3	0.52	49	46	3.05	1	1	0.00	
MERCER	11	4	0.69	26	22	3.76	5	3	7.09	
MIDDLESEX	2	0	0.00	134	67	4.87	5	5	8.00	
MONMOUTH	14	3	0.47	24	15	6.28	5	5	6.88	
MORRIS	2	0	0.00	13	0	0.00	4	3	12.75	
OCEAN	6	1	0.00	81	46	5.84	4	4	12.23	
PASSAIC	9	2	1.91	28	13	0.19	6	1	4.03	
SALEM	4	1	1.47	19	2	2.84	1	1	2.74	
SOMERSET	6	1	0.85	82	44	3.51	2	1	1.69	
SUSSEX	5	5	1.31	22	22	4.61	2	2	13.45	
UNION	4	1	0.00	154	32	4.43	5	5	4.18	
WARREN	8	0	0.00	37	16	4.81	2	1	0.00	
NW Region	24	7	1.45	100	51	3.44	14	7	8.92	
NE Region	34	10	0.72	190	109	5.45	23	18	6.00	
CW Region	21	8	0.63	157	112	3.42	8	5	4.75	
CE Region	26 38	5	0.31 0.40	393 204	160 107	5.19 4.99	19 21	19 18	7.92 3.05	
South Region State Total	143	15 45	0.40 0.69	204 1044	539	4.99 4.68	85	67	6.14	
State I Otal	143	40	0.09	1044	339	4.00	0.5	07	0.14	
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User Name: GROSS, CINDY

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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 12/15/2009



NEW JERSEY DEPARTMENT HEALTH SENIOR SERVICES

	RSV Tests		Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
December, 15, 2009 12:00 AM MI	MRW WEEK	50			
ATLANTIC	11	49	0	0	
BERGEN	0	0	0	0	
BURLINGTON	0	21	0	49	
CAMDEN	6	40	0	0	
CAPE MAY	3	11	1	17	
CUMBERLAND	18	31	0	0	
ESSEX	19	50	9	221	
GLOUCESTER	3	17	0	0	
HUDSON	9	35	6	65	
HUNTERDON	3	8	0	19	
MERCER	21	62	0	6	
MIDDLESEX	48	153	9	214	
MONMOUTH	29	94	23	232	
MORRIS	0	0	0	0	
OCEAN	6	15	0	0	
PASSAIC	17	58	11	108	
SALEM	0	3	0	0	
SOMERSET	2	5	0	0	
SUSSEX	2	7	2	58	
UNION	24	61	1	32	
WARREN	0	4	0	32	
NW Region	19	69	13	198	
NV Region NE Region	28	85	15	286	
CW Region	26	75	0	25	
CE Region	107	323	33	478	
South Region	41	172	1	66	
State Total	221	724	62	1053	